

# Gearbox monitoring guide



## Key indicators of gearbox health

- Balance
- Looseness
- Alignment
- Gear tooth condition
- Bearing condition



## 4 common reasons gearboxes fail

- Gear tooth wear
- Gear tooth misalignment
- Bearing wear
- Fatigue



## Protect your gearboxes

- Identify faults early
- Extend equipment life
- Minimize lost production time
- Order replacement parts prior to shutdown



Gearboxes are vital components of fans, motors, compressors, and other machinery. Vibration sensors help to improve gearbox reliability and efficiency by detecting mechanical problems early, so you can minimize unplanned downtime, reduce operating costs and protect your gearboxes from damage or failure.

## Recommended monitoring solutions

Consideration	Solution	Product
Corrosive environments	Integral cable sensors Dual output accelerometers	786F 786T
Gear mesh frequencies	High frequency sensor	786A 787A 712F
Gear tooth wear, misalignment, bearing wear	Dynamic vibration monitoring	PC420-ATP 786A and iT300 PCH420V 786A, 787A 712F

## Ideal markets and applications

- Pulp and paper mills
- Wind turbines
- Plastic manufacturing
- Food processing
- Power generation
- Oil and gas